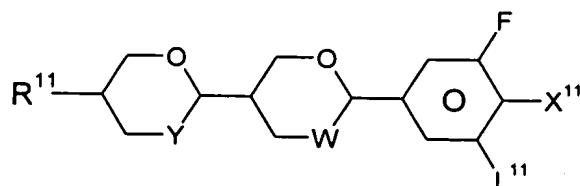




# Patent Claims

1. Liquid-crystalline compounds of the formula I



in which

$R^{11}$  denotes H, an alkyl or alkoxy radical having 1 to 15 carbon atoms or alkenyl or alkenyloxy radical having 2 to 15 carbon atoms, each of which is unsubstituted or mono- or polysubstituted by halogen, where, in addition, one or more  $CH_2$  groups in these radicals may each, independently of one another, be replaced by  $-C\equiv C-$ ,  $-CH=CH-$ , , ,  $-O-$ ,  $-CO-$ ,  $-CO-O-$  or  $-O-CO-$  in such a way that O atoms are not linked directly to one another,

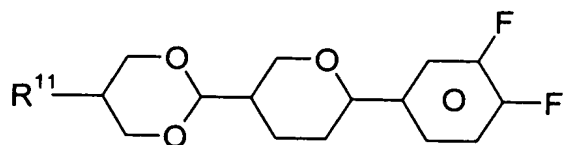
$X^{11}$  denotes F, Cl, CN, NCS,  $SF_5$ , fluoroalkyl or fluoroalkoxy having 1 to 7 carbon atoms or fluoroalkenyl or fluoroalkenyloxy having 2 to 7 carbon atoms;

$L^{11}$  denotes H or F, and

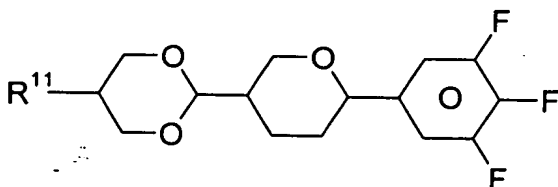
Y stands for O and W stands for  $CH_2$  or Y stands for  $CH_2$  and W stands for O or Y and W both stand for  $CH_2$ .

2. Liquid-crystalline compounds according to Claim 1, characterised in that  $L^{11}$  denotes F.
3. Liquid-crystalline compounds according to Claim 1 or 2, characterised in that  $R^{11}$  denotes a straight-chain alkyl or alkenyl radical having up to 7 carbon atoms.

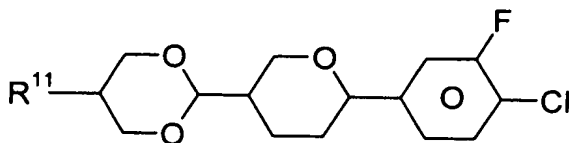
4. Liquid-crystalline compounds according to one of Claims 1 to 3, characterised in that  $X^{11}$  denotes F, Cl, ,  $SF_5$ , CN,  $OCF_3$  or  $OCHF_2$ .
5. Liquid-crystalline compounds according to one of Claims 1 to 4, characterised in that Y stands for O and W stands for  $CH_2$ .
6. Liquid-crystalline compounds according to one of Claims 1 to 4, characterised in that Y stands for  $CH_2$  and W stands for O.
7. Liquid-crystalline compounds according to one of Claims 1 to 4, characterised in that Y and W both stand for  $CH_2$ .
8. Liquid-crystalline compounds according to Claim 1, selected from the group consisting of compounds of the formulae I1 to I30:



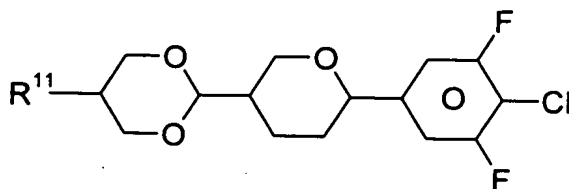
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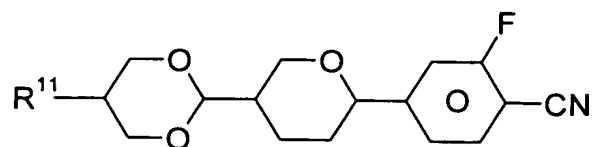
I2



I3

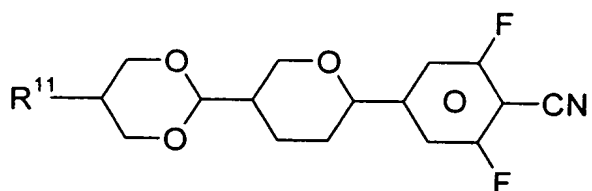


I4



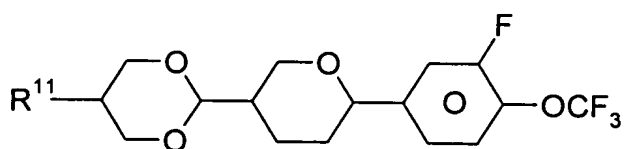
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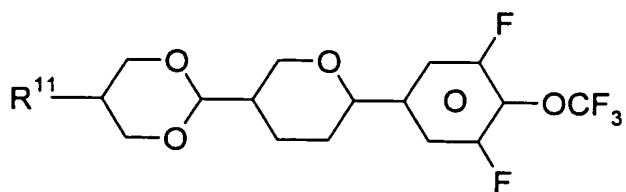
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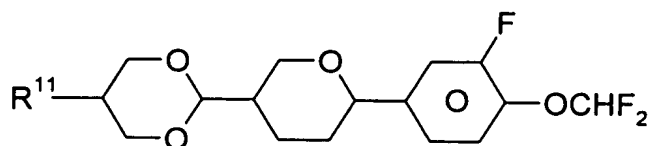
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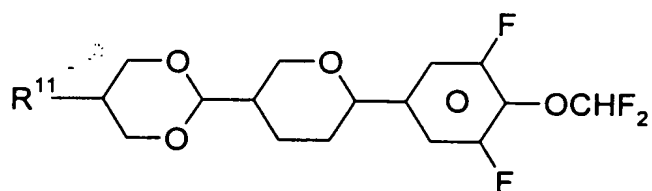
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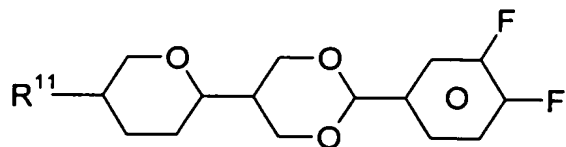
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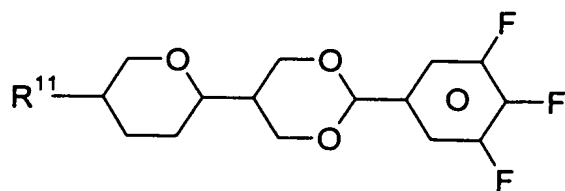
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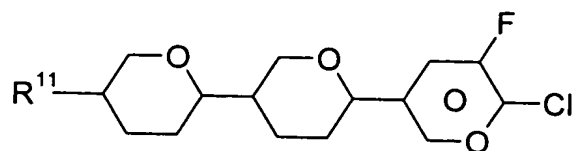


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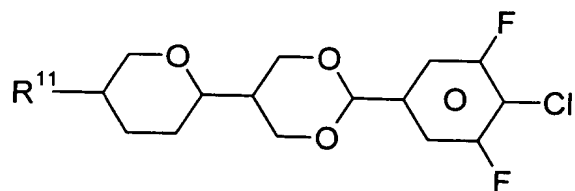


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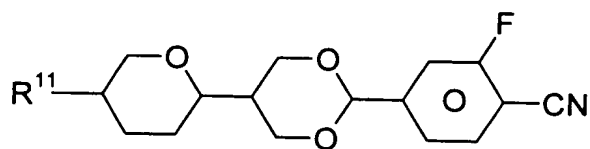
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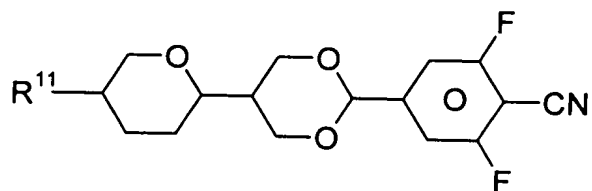
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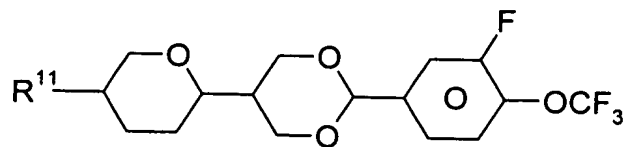
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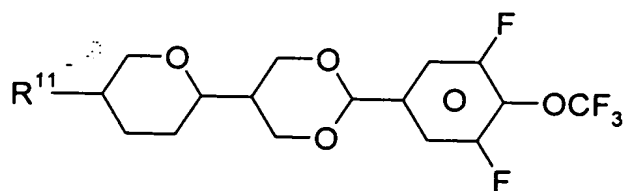
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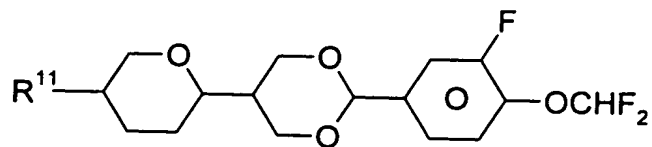
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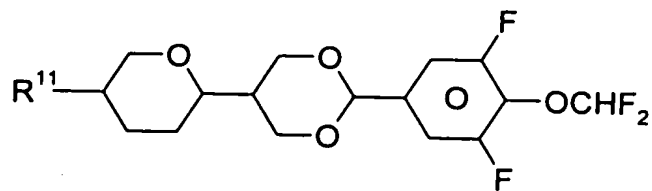
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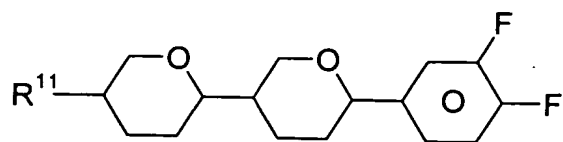


I19

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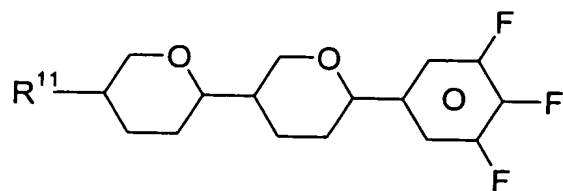


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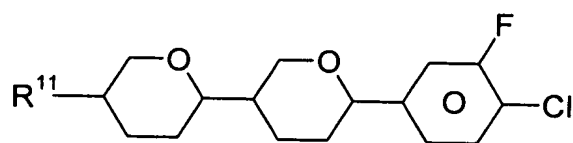
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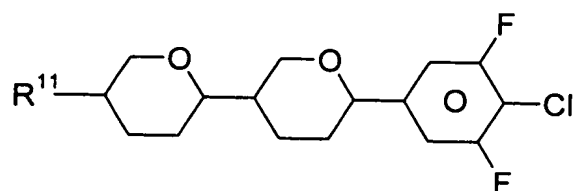
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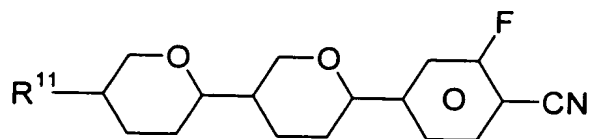
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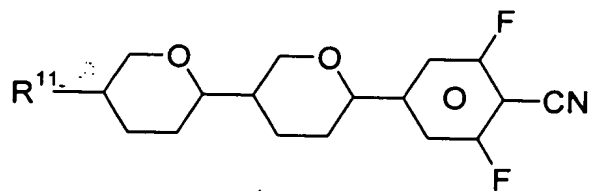
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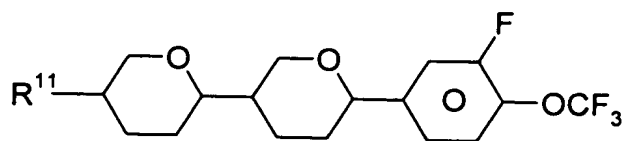
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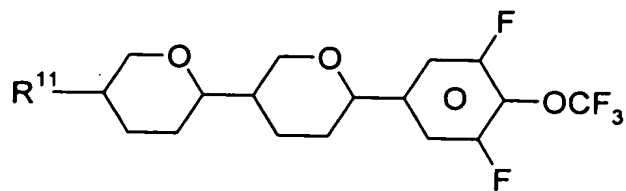
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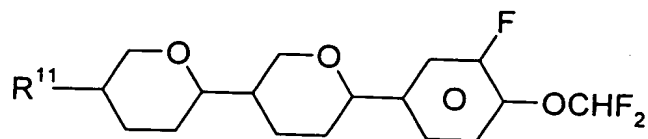


I27

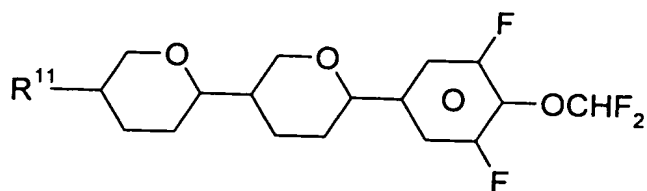
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I28



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where R<sup>11</sup> has the meanings indicated in Claim 1.

9. Use of one or more compounds of the formula I according to one of Claims 1 to 8 as components in a liquid-crystalline medium.
10. Liquid-crystalline medium having at least two liquid-crystalline compounds, characterised in that it comprises at least one compound of the formula I according to one of Claims 1 to 8.
11. Use of the liquid-crystalline medium according to Claim 10 for electro-optical purposes.
12. Electro-optical liquid-crystal display containing a liquid-crystalline medium according to Claim 10.